Performance Data of RR Varieties Approved for Sale to ACSC Growers in 2010
During 2007, 2008 & 2009 Growing Seasons (All Locations Combined) +++

Description @	Yrs Com	Rev/Ton 2009	Rev/Ton 3 Yr#	Rev/Ton 3 Yr%	Rev/Ton 2 Yr	Rev/Ton 2 Yr%	Rev/Acre 2009	Rev/Acre 3 Yr#	Rev/Acre 3 Yr%	Rev/Acre 2 Yr	Rev/Acre 2 Yr%	Rec/Ton 2009	Rec/Ton 2 Yr	Rec/Acre 2009	Rec/Acre 2 Yr	Sugar 2009	Sugar 2 Yr	Yield 09	Yield 2 Yr	Molasses 09	Molasses 2 Yr	Emergence 09	Emergence 2 Yr	CR + 09	CR + 2 Yr	Aph Root+ 09	Aph Root+ 2 Yr	Fusarium+ 09	Fusarium+ 2 Yr	Rhizoc.++ 09	Rhizoc.++ 2 Yr
Roundup Ready # of locations	→	6	22	22	12	12	6	22	22	12	12	6	12	6	12	6	12	6	12	6	12	6	12	4	7	2	3	2	4	1	2
Previously Approved																															
Crystal 765RR	1	39.05	43.53	111	41.62	113	1022	1179	117	1135	121	306	317	8025	8632	16.38	16.90	26.3	27.2	1.07	1.06	74	74	4.89	4.43	5.6	6.4	3.9	4.0	4.7	5.9
Beta 87RR68	1	37.65	42.98	110	41.28	112	997	1184	117	1146	122	300	315	7945	8734	16.09	16.84	26.4	27.6	1.08	1.07	65	67	4.66	4.49	6.2	6.8	4.0	4.0	4.6	5.9
Crystal 768RR	1	37.81	40.16	103	38.77	105	982	1133	112	1075	115	301	305	7816	8450	16.17	16.40	26.0	27.7	1.12	1.15	77	76	4.94	4.70	5.0	5.2	4.4	4.8	4.1	4.9
SESVanderhave H36711RR	1	36.63	40.79	104	38.18	103	954	1075	107	1002	107	296	302	7703	7946	15.82	16.19	26.0	26.3	1.02	1.06	79	73	5.22	4.79	4.5	4.7	4.4	5.9	4.5	4.2
Beta 87RR38	1	36.34	39.53	101	38.02	103	930	1102	109	1040	111	295	302	7574	8274	15.88	16.25	25.8	27.4	1.14	1.16	66	68	4.73	4.53	4.8	4.9	3.8	4.3	3.8	4.1
Beta 87RR58	1	36.17	39.89	102	38.15	103	929	1097	109	1048	112	294	302	7539	8287	15.88	16.29	25.6	27.3	1.17	1.18	72	70	5.06	4.83	4.8	5.0	4.5	4.9	4.5	4.9
Beta 86RR66	2	35.57	39.56	101	37.97	103	914	1050	104	991	106	292	302	7494	7872	15.77	16.27	25.7	26.1	1.19	1.19	58	50	5.00	5.08	4.3	4.7	4.4	5.1	4.1	4.3
Hilleshög 4043RR(9043)	1	36.12	40.86	105	39.08	106	893	1079	107	1033	110	294	306	7273	8083	15.71	16.31	24.7	26.3	1.00	0.99	74	70	4.69	4.59	4.9	4.7	6.0	6.7	4.5	4.9
Hilleshög 4012RR	2	35.33	39.58	101	37.93	103	892	1076	107	1020	109	291	301	7324	8086	15.61	16.15	25.1	26.7	1.08	1.08	72	71	5.29	5.14	4.5	4.4	5.3	5.8	4.8	5.1
Beta 86RR44	2	34.11	38.90	100	37.46	101	871	1029	102	967	103	286	299	7297	7727	15.46	16.15	25.6	25.8	1.18	1.18	57	50	4.83	4.91	4.5	4.4	4.8	5.2	4.3	4.7
Hilleshög 4010RR	2	36.90	41.35	106	39.85	108	869	1031	102	982	105	297	309	7003	7621	15.92	16.54	23.6	24.6	1.06	1.07	75	69	5.51	5.16	4.1	4.5	6.0	6.4	5.0	4.7
Beta 85RR02	2	35.96	40.41	104	38.82	105	858	1048	104	959	102	293	305	6994	7536	15.81	16.41	23.8	24.7	1.15	1.15	70	63	4.66	4.65	4.0	4.1	2.7	2.7	4.5	5.4
Crystal 539RR	2	35.26	40.36	103	38.48	104	855	1028	102	964	103	290	304	7036	7597	15.67	16.33	24.2	25.0	1.16	1.15	71	70	5.25	5.08	4.2	4.4	1.8	2.0	4.4	5.8
Hilleshög 4000RR	1	36.07	40.57	104	37.83	102	840	990	98	916	98	294	301	6844	7303	15.80	16.19	23.3	24.3	1.11	1.14	65	62	4.71	4.63	5.4	5.3	6.3	7.0	4.9	4.9
Crystal 658RR	2	32.99	37.33	96	35.90	97	831	1025	102	952	102	281	293	7088	7767	15.09	15.67	25.3	26.5	1.05	1.02	72	68	4.63	4.44	3.9	4.4	2.4	2.4	3.7	3.3
Newly Approved																															
Crystal 878RR	NC	35.97	--	--	38.93	105	948	--	--	1075	115	293	306	7721	8419	15.86	16.44	26.3	27.5	1.19	1.16	80	71	4.91	4.68	5.1	5.1	4.2	--	4.4	--
Beta 88RR61	NC	37.38	--	--	39.35	106	952	--	--	1054	112	299	307	7635	8229	16.07	16.49	25.5	26.8	1.09	1.11	73	70	5.06	4.62	4.6	4.6	3.7	3.8	4.5	--
Crystal 879RR	NC	34.39	--	--	36.90	100	903	--	--	1046	112	287	297	7513	8396	15.45	15.96	26.2	28.2	1.13	1.11	74	71	5.13	4.83	5.0	5.3	3.3	--	4.1	--
Beta 88RR41	NC	35.20	--	--	37.53	102	899	--	--	1044	111	290	300	7423	8321	15.62	16.10	25.7	27.7	1.13	1.11	77	73	4.87	4.72	4.7	5.1	3.1	3.2	4.3	--
Crystal 875RR	NC	35.79	--	--	38.52	104	911	--	--	1036	111	293	304	7448	8167	15.79	16.34	25.4	26.8	1.16	1.14	76	72	4.56	4.41	3.0	3.4	4.1	--	4.2	--
SESVanderhave H36813RR	NC	36.73	--	--	37.27	101	951	--	--	1036	110	297	299	7699	8310	15.86	15.98	26.0	27.9	1.01	1.03	87	78	4.55	5.15	4.4	4.9	4.4	--	4.6	4.1
Beta 88RR31	NC	35.88	--	--	38.27	104	894	--	--	1025	109	293	303	7339	8124	15.88	16.37	25.1	26.8	1.23	1.22	73	68	4.97	4.83	4.1	4.2	2.9	3.4	4.1	--
Crystal 880RR	NC	36.09	--	--	38.75	105	875	--	--	1019	109	294	305	7135	8015	15.82	16.38	24.3	26.2	1.13	1.14	75	73	4.60	4.54	4.8	5.0	3.3	--	4.1	--
Crystal 871RR	NC	34.34	--	--	37.02	100	881	--	--	1018	109	286	298	7354	8168	15.53	16.09	25.7	27.4	1.22	1.20	75	72	4.90	4.69	4.2	4.4	2.3	--	4.9	--
Seedex SX0883RR (Usher)	NC	35.85	--	--	37.01	100	903	--	--	1011	108	293	298	7400	8139	15.66	15.92	25.3	27.4	1.01	1.04	84	78	4.35	5.09	4.4	4.8	4.1	--	4.1	--
SESVanderhave H36812RR	NC	35.98	--	--	37.69	102	924	--	--	1007	107	293	300	7551	8028	15.70	16.04	25.8	26.7	1.03	1.02	86	77	4.74	4.78	4.5	4.7	4.1	--	4.6	4.5
Beta 88RR71	NC	37.31	--	--	39.35	107	873	--	--	1003	107	299	308	7024	7829	16.08	16.51	23.6	25.4	1.13	1.13	79	76	4.67	4.56	3.9	4.2	5.2	--	4.4	--
Seedex SX0881RR (Unicorn)	NC	36.30	--	--	38.83	105	881	--	--	998	107	295	305	7165	7846	15.77	16.31	24.3	25.7	1.02	1.04	70	67	5.33	5.01	4.3	5.0	5.8	6.2	4.8	--
Seedex SX0884RR (Uplander)	NC	38.92	--	--	40.21	109	920	--	--	996	106	306	311	7245	7708	16.29	16.53	23.7	24.8	0.98	0.97	85	78	4.94	4.87	4.3	4.4	4.9	--	4.7	--
Beta 88RR21	NC	33.72	--	--	36.75	99	840	--	--	972	104	284	297	7080	7832	15.27	15.86	25.0	26.4	1.07	1.03	74	69	4.33	4.26	4.1	4.3	2.8	2.6	3.8	--
Hilleshög 4114RR(9114)	NC	37.86	--	--	41.25	112	837	--	--	970	104	301	315	6663	7403	16.09	16.78	22.1	23.4	1.01	1.00	60	57	3.88	3.51	4.6	5.0	6.4	--	4.2	--
Hilleshög 4094RR(9094)	NC	35.87	--	--	37.49	101	869	--	--	960	102	293	300	7092	7672	15.82	16.14	24.1	25.6	1.17	1.15	77	73	4.42	4.10	4.0	4.4	4.3	--	3.2	2.6
Hilleshög 4085RR(9085)	NC	34.99	--	--	37.60	102	830	--	--	959	102	289	300	6876	7653	15.60	16.13	23.8	25.5	1.15	1.13	77	73	4.35	4.10	4.0	4.2	4.5	--	3.3	--
SESVanderhave H36811RR	NC	39.11	--	--	40.11	109	862	--	--	955	102	307	311	6771	7401	16.33	16.50	22.1	23.8	0.99	0.97	84	81	5.10	4.71	4.4	4.7	3.3	--	4.3	3.7
Hilleshög 4022RR	1	34.25	39.04	100	36.96	100	839	1005	100	938	100	286	297	6998	7541	15.48	16.04	24.4	25.3	1.18	1.17	64	67	4.53	4.16	4.8	4.8	4.4	4.9	3.1	2.4
Beta 88RR13	NC	32.96	--	--	35.55	96	801	--	--	931	99	281	291	6833	7629	15.15	15.68	24.4	26.2	1.13	1.10	65	67	4.55	4.32	3.9	4.4	2.6	2.6	3.4	2.7
Beta 88RR03	NC	33.98	--	--	35.80	97	822	--	--	929	99	285	293	6901	7601	15.35	15.72	24.3	26.0	1.10	1.10	68	67	4.65	4.27	4.2	4.4	2.4	2.6	3.5	3.1
Hilleshög 4097RR(9097)	NC	36.09	--	--	38.13	103	804	--	--	910	97	294	302	6521	7197	15.82	16.23	22.1	23.7	1.13	1.12	66	64	4.01	3.73	5.5	5.5	5.9	--	4.0	2.7
Mean of benchmark varieties		34.89	39.04		36.95		859	1009		937		289	297	7111	7542	15.55	15.97	24.6	25.3	1.11	1.10	71	68								

Columns with % are the previous column expressed as % of several benchmark varieties.

Emergence is % of planted seeds producing a 4 leaf beet.

++ 2009 Revenue estimates based on a $42.40 beet payment at 17.5% sugar and 1.5% loss to molasses. 2008 Revenue estimates based on a $42.38. Revenue does not consider hauling costs or production costs.

+ Aph Ratings from Shakopee & RRV (1=healthy, 9=dead). CR ratings from Rosemount, Michigan & Foxhome (1=healthy, 9=dead). Fusarium ratings from 2 MN sites (mod resist = 4.5, mod susc = 5.7).

Created 11-17-2009.

++ Rhizoctonia ratings from Ft Collins and Moorhead (res=3, susc=5+).

+++ Sites include Ada, Hillsboro, Crookston, Grand Forks, St Thomas & Hamilton in 2008.

@ All varieties are diploid unless noted.

+++ Sites include Argyle, Averill, Casselton, Grand Forks, Humboldt & St Thomas in 2009.